PATENT COOPERATION TREATY

PCT/JP2003/015742

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference RK15008F	FOR FURTHER ACT	TION	See Form PCT/IPEA/416			
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)			
РСТ/ЈР2003/015742	09 December 2003	3 (09.12.2003)	10 December 2002 (10.12.2002)			
International Patent Classification (IPC) or national classification and IPC H01S 3/105						
Applicant RIKEN						
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 						
2. This REPORT consists of a total of	sheets, in	ncluding this cover	sheet.			
3. This report is also accompanied by	ANNEXES, comprising:					
a. (sent to the applicant and	d to the International Bure	eau) a total of	sheets, as follows:			
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the						
Administrative Instruction	ons).					
4. This report contains indications rel	ating to the following item	ns:	Ĭ			
Box No. I Basis of the	Box No. I Basis of the report					
Box No. II Priority	Box No. II Priority					
Box No. III Non-establis	hment of opinion with reg	ard to novelty, inve	ntive step and industrial applicability			
Box No. IV Lack of unit	Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;						
	citations and explanations supporting such statement Box No. VI Certain documents cited					
	cts in the international app	olication				
Box No. VII Certain defects in the international application						
		D. 4 - C 1-41-	a SAL:			
Date of submission of the demand		Date of completion				
16 June 2004 (16.06.2004)		28	October 2004 (28.10.2004)			
Name and mailing address of the IPEA/JP		Authorized officer				
Facsimile No.		Telephone No.				

Translation

International application No.

PCT/JP2003/015742

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Box No.	I	Basis of the report			
 With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. 					
	This which	report is based on translations from the original language into the following language, the is language of a translation furnished for the purpose of:			
	international search (under Rules 12.3 and 23.1(b))				
	publication of the international application (under Rule 12.4)				
		international preliminary examination (under Rules 55.2 and/or 55.3)			
furnis	shed to ire noi	d to the elements of the international application, this report is based on (replacement sheets which have been to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" annexed to this report):			
	The i	nternational application as originally filed/furnished			
		escription:			
	page				
	page				
	page	received by this Authority on			
	the c	laims:			
	page				
	page				
	page				
_	page	Teceived by this reducing on			
	the d	lrawings:			
	page				
	page				
	page				
	a sec	quence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.			
3.	The	amendments have resulted in the cancellation of:			
		the description, pages			
		the claims, Nos.			
	F	the drawings, sheets/figs			
	F	the sequence listing (specify):			
		any table(s) related to sequence listing (specify):			
	L				
4. 🔲	mac	s report has been established as if (some of) the amendments annexed to this report and listed below had not been de, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box le 70.2(c)). the description, pages			
		the claims, Nos.			
	늗	the drawings, sheets/figs			
	늗	the sequence listing (specify):			
	<u> </u>	any table(s) related to sequence listing (specify):			
	L_	any taute(s) related to sequence fishing (speedyy).			
* If ite	em 4 c	applies, some or all of those sheets may be marked "superseded."			

International application No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

РСТ/JР03/15742

Box No. I	II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	tions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially le have not been examined in respect of:				
	the entire international application.				
\boxtimes	claims Nos				
becaus	the said international application, or the said claims Nos relate to the following subject matter which does not require an international preliminary examination (specify):				
	the description, claims or drawings (indicate particular elements below) or said claims Nosare so unclear that no meaningful opinion could be formed (specify):				
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.				
\boxtimes	no international search report has been established for said claims Nos. 3-6, 8-13.				
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:				
	the written form has not been furnished				
	does not comply with the standard the computer readable form has not been furnished does not comply with the standard				
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.				
	see Supplemental Box for further details.				

International application No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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chanons and explanat	ions supporting such statement			2 % .
Statement			is the	•
Novelty (N)	Claims	 	<u> </u>	,YES
	Claims	1, 2, 7	Man .	_ NO
Inventive step (IS)	Claims			YES
	Claims	1, 2, 7		_ ио
Industrial applicability (IA)	Claims	1, 2, 7		YES
	Claims			NO

2. Citations and explanations (Rule 70.7)

Document 1: JP, 2-307285, A (Komatsu Ltd.), 20 December, 1990, Full text; Figs. 1-10 (Family: none)

Document 2: JP, 5-283785, A (Komatsu Ltd.), 29 October, 1993, Full text; Figs. 1-11 (Family: none) Document 3: JP, 6-104520, A (Komatsu Ltd.), 15 April, 1994, Par. Nos. [0013]-[0015], Fig. 2 (Family: none)

Document 4: JP, 11-214803, A (Komatsu Ltd.), 06 August, 1999, Par. Nos. [0041], Fig. 3 (Family: none)

Document 5: JP, 2001-168440, A (Cymer, Inc.), 22 June, 2001, Full text; Figs. 1, 2, 6, 9-11 & WO, 2001/18922, A1

Document 6: JP, 2001-267673, A (Cymer, Inc.), 28 September, 2001, Full text; Figs. 10, 12-14 & WO, 2001/59889, A1

Document 7: JP, 2001-332793, A (Komatsu Ltd.), 30 November, 2001, Par. Nos. [0021], Fig. 1 (Family: none)

Claims 1, 2, 7

Because the inventions relating to claims 1, 2 and 7 are described in documents 1-7 cited in the ISR, they do not appear to be novel or to involve an inventive step. Documents 17 describe a laser device comprising a laser resonator constituted to have adaptive optics, a laser medium provided within said laser resonator, and a dispersion element for receiving an output light from said laser medium, wherein the output light from the laser medium is received by a mirror having adaptive optics, and the reflection light from the mirror having adaptive optics is received by a grating, diffraction light from the grating is reflected by the mirror having adaptive optics and then is received by a mirror having a predetermined transparency.

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)
(PCT Rule 72.2)

To:

UESHIMA, Junichi 5-11-404, Nishi Ikebukuro 1-chome Toshima-ku, Tokyo 171-0021 JAPON

Date of mailing (day/month/year) 09 June 2005 (09.06.2005)	
Applicant's or agent's file reference RK15008F	IMPORTANT NOTIFICATION
International application No. PCT/JP2003/015742	International filing date (day/month/year) 09 December 2003 (09.12.2003)
Applicant	RIKEN et al

1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

CN FP

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

US

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Yoshiko Kuwahara

Facsimile No.+41 22 740 14 35

Facsimile No.+41 22 338 90 90

Form PCT/IB/338 (July 1996)